

Zenith[®] Diffusion Material

Durable, low cost diffusers for backlighting systems



Unique properties

Labsphere's Zenith Diffusers are made of a PTFE based polymer with unique optical properties. The thin sheets offer diffuse transmittance for a variety of light scattering applications, as well as diffuse reflectance and durability for a variety of backlighting applications. The material is ideal for use as radiometric and photometric diffusers, general backlighting, flat panel, and display applications.

Variety of sizes and thicknesses

Zenith Diffusers are available in thicknesses of 100 μm , 250 μm , 500 μm , 1 mm and 2 mm with transmission values of approximately 4% to 50% over the wavelength region covering 250 to 2500 nm. Custom sizes and thicknesses are available upon request.

Value

- Lambertian
- Durable, cleanable
- High transmittance with low backscatter characteristics

Applications

- Radiometric and photometric diffusers
- General backlighting
- Flat panels
- Displays

Ordering Information

Order Number	Dimension	Thickness	Transmission
SG 3201	8 x 12 inch (20 x 30 cm)	100 μm	approx. 50%
SG 3203	8 x 12 inch (20 x 30 cm)	250 μm	approx. 25%
SG 3205	8 x 12 inch (20 x 30 cm)	500 μm	approx. 16%
SG 3210	8 x 12 inch (20 x 30 cm)	1 mm	approx. 8%

Typical Transmission Values

